

**Amendments To The Specification:**

Please replace the originally filed abstract with the following. A replacement sheet that recites this amended abstract is enclosed.

The invention provides a method, a system and software to screen for, identify and validate biomarkers that are predictive of a biological state, such as a cell state and/or patient status. The method includes providing at least a first and a second independent discovery data set, qualifying each common data element, selecting an initial subset of data elements within each data set, and selecting an intersection subset of data elements from the initial subsets. The data elements in the intersection subset are presumptive classifiers or biomarkers.